

MONOCLONAL ANTIBODY TO ETHENOADENOSINE clone 1G4

Catalog nr	HM5005 (lot number and expiry date are indicated on the label)
Description	<p>The reaction of chloroacetaldehyde (CAA) with DNA results in the formation of ethenoadenosine also known as 1,<i>N</i>^ε-ethenodeoxy-adenosine or etheno-A. CAA is formed through metabolization of for example vinyl chloride, a well established carcinogen. In RNA, after in vitro activation, etheno-A and etheno-C are the principle products of RNA damage. Etheno derivate formation may be highest in single-stranded DNA-regions.</p> <p>The monoclonal antibody 1G4 reacts with both the ribose and deoxyribose form of the adduct. The antibody is not cross reactive with non-modified DNA or the normal nucleotides.</p>
Species	Mouse IgG ₂
Formulation	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin.
Application	The monoclonal antibody 1G4 can be used for immuno precipitation, Western blotting and flow cytometry. Furthermore the monoclonal antibody 1G4 is useful for immunohistology on frozen sections and immuno assays.
Use	For immunohistology, flow cytometry and Western blotting dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10.
Storage and stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and Federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result with the use of or derivation of this product.
References	<ol style="list-style-type: none">1. Young, T et al; Development of techniques to monitor for exposure to vinyl chloride: monoclonal antibodies to ethenoadenosine and ethenocytidine. <i>Carcinogenesis</i> 1988, 9: 5892. Krebs, C et al; Flow cytometric and immunoblot assays for cell surface ADP-ribosylation using a monoclonal antibody specific for ethenoadenosine. <i>Anal Biochem</i> 2003, 314: 108
Also available	HM5007 Monoclonal antibody against BPDE-DNA, clone 5D11 HM5008 Monoclonal antibody against BPDE, clone 8E11